

Practice 4-2

Write each expression using an exponent. Name the base and the exponent.

1. $3 \times 3 \times 3 \times 3$

2. $7 \times 7 \times 7 \times 7 \times 7 \times 7$

3. $9 \times 9 \times 9$

Write each number in expanded form using powers of 10.

4. 98,364

5. 20,351,401

6. 875,020

Simplify each expression.

7. 9^2

8. 6^4

9. 5^3

10. $156 + (256 \div 8^2)$

11. $32 + 64 + 2^3$

12. $53 + 64 \div 2^3$

13. $(3 \times 4)^2$

14. $60 \div (8 + 7) + 11$

15. $2^2 \times 5^2 + 106$

16. $4 + 7 \times 2^3$

17. $60 + (5 \times 4^3) + 2^2 \times 55$

18. $7^2 + 4$

19. $7^2 - 7 \times 2$

20. $48 \div 4 \times 5 - 2 \times 5$

21. $(4^2 - 4) \times 10$

22. $(4 + 3) \times (2 + 1)$

23. $2^4 \times 2^5$

24. $12 \times (30 + 37)$

25. $(3 + 2) \times (6^2 - 7)$

26. $5 \times (9 + 4) + 362 \div 2$

27. $3^4 + 405 \div 81$
